



RAW SEQUENCE LISTING PATENT APPLICATION US/09/382,242

DATE: 10/19/1999 TIME: 13:13:36

INPUT SET: \$33689.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

1		SEQUENCE LISTING		
2 3	(1)	General Informat	ion:	
4 5 6 7 8 9 10 11 12	(i) APP	LICANTS:	ROBERTSON, Daniel E. MURPHY, Dennis REID, John MAFFIA, Anthony LINK, Steven SWANSON, Ronald V. WARREN, Patrick V. KOSMOTKA, Anna	ENTERED
14 15	(ii)	TITLE OF INVEN	TION: ESTERASES	
16 17				
18	(iii)	NUMBER OF	SEQUENCES: 42	
19 20				
21	(iv)	CORRESPONDENCE	ADDRESS:	
22		(3) 333333		
23 24		• •	FISH & RICHARDSON P.C. 25 EXECUTIVE SQUARE, STE 140	00
25		(C) CITY: L		
26		(D) STATE: C.		
. 27 28		(E) COUNTRY: U: (F) ZIP: 9:	SA 2037	
29		(1, 111		
30				
31 32			ER READABLE FORM: E: 3.5 INCH DISKETTE	
33		(B) COMPUTER:		
34		(C) OPERATING	SYSTEM: MS-DOS)
35		(D) SOFTWARE:	WORD PERFECT 6.0	
36 37		(vi) CURREN	T APPLICATION DATA:	
38		(,	PLICATION NUMBER: 09/382,242	2
39			LING DATE:	
40		(C) CL	ASSIFICATION:	
41		(vii) PRIOR	ADDITCATION DATA	
42 43	•	·	APPLICATION DATA: PLICATION NUMBER: 08/602,359)
44			LING DATE:	
45				
46		(viii) ATTORNI	EY/AGENT INFORMATION:	

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47
              (A) NAME: HAILE, LISA A.
              (B) REGISTRATION NUMBER: 38,347
48
              (C) REFERENCE/DOCKET NUMBER: 09010/010001
49
50
51
              (ix)
                     TELECOMMUNICATION INFORMATION:
              (A) TELEPHONE: 619-678-5070
52
              (B) TELEFAX: 619-678-5099
53
54
55
                (2) INFORMATION FOR SEQ ID NO:1:
56
57
58
         (i) SEQUENCE CHARACTERISTICS:
                 (A) LENGTH: 52 NUCLEOTIDES
59
60
                 (B) TYPE: NUCLEIC ACID
                 (C) STRANDEDNESS: SINGLE
61
                 (D) TOPOLOGY: LINEAR
62
63
        (ii) MOLECULE TYPE: cDNA
64
65
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
66
67
68
    CCGAGAATTC ATTAAAGAGG AGAAATTAAC TATGTCTTTA AACAAGCACT CT
                                                                         52
69
70
71
    (2) INFORMATION FOR SEQ ID NO:2:
72
73
        (i) SEQUENCE CHARACTERISTICS:
74
              (A) LENGTH: 31 NUCLEOTIDES
75
              (B) TYPE: NUCLEIC ACID
76
              (C) STRANDEDNESS: SINGLE
77
78
              (D) TOPOLOGY: LINEAR
79
        (ii) MOLECULE TYPE: cDNA
80
81
82
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
84 CGGAAGATCT CTATCGTTTA GTGTATGATT T
                                                                    31
85
86
87
    (2) INFORMATION FOR SEQ ID NO:3:
88
89
        (i) SEQUENCE CHARACTERISTICS:
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             (A) LENGTH: 52 NUCLEOTIDES
91
92
              (B) TYPE: NUCLEIC ACID
              (C) STRANDEDNESS: SINGLE
93
94
              (D) TOPOLOGY: LINEAR
95
96
        (ii) MOLECULE TYPE: cDNA
97
98
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
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RAW SEQUENCE LISTING PATENT APPLICATION US/09/382,242

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	INDIIT	SET: S33689.raw
100	CCGAGAATTC ATTAAAGAGG AGAAATTAAC TATGAAACTC CTTGAGCCCA CA	52
101	COMMITTE ATTAMANDO NOMMITME INTUINICE CITALIOCCOLI CII	32
102		
103		
104	(2) INFORMATION FOR SEQ ID NO:4:	
105	(2) 200 000 000 000 000 000 000 000 000 0	
106	(i) SEQUENCE CHARACTERISTICS:	
107	(A) LENGTH: 31 NUCLEOTIDES	
108	(B) TYPE: NUCLEIC ACID	
109	(C) STRANDEDNESS: SINGLE	
110	(D) TOPOLOGY: LINEAR	
111	(=, =,=================================	
112	(ii) MOLECULE TYPE: cDNA	
113		
114	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:	
115		
116	CGGAAGATCT CGCCGGTACA CCATCAGCCA C	31
117		
118		
119		
120	(2) INFORMATION FOR SEQ ID NO:5:	
121		
122	(i) SEQUENCE CHARACTERISTICS:	
123	(A) LENGTH: 52 NUCLEOTIDES	
124	(B) TYPE: NUCLEIC ACID	
125	(C) STRANDEDNESS: SINGLE	
126	(D) TOPOLOGY: LINEAR	
127		
128	(ii) MOLECULE TYPE: cDNA	
129		
130	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:	
131		
132	CCGAGAATTC ATTAAAGAGG AGAAATTAAC TATGCCATAT GTTAGGAATG GT	52
133		
134		
135		
136	(2) INFORMATION FOR SEQ ID NO:6:	
137		
138	(i) SEQUENCE CHARACTERISTICS:	
139	(A) LENGTH: 53 NUCLEOTIDES	
140	(B) TYPE: NUCLEIC ACID	
141	(C) STRANDEDNESS: SINGLE	
142	(D) TOPOLOGY: LINEAR	
143	// / /	
144	(ii) MOLECULE TYPE: cDNA	
145	(wit) GROUPINGE DEGEREPATION CEO TO NO C	
146	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:	
147	CCCACCMACC MMACAACMCM CCMCAACAAA MAAAMMCCMC CAMMCCMCMA MMA	Εò
148	CGGAGGTACC TTAGAACTGT GCTGAAGAAA TAAATTCGTC CATTGCTCTA TTA	53
149 150		
151		
151	(2) INFORMATION FOR SEQ ID NO:7:	
104	(5) THI OWNITON LOW DEA ID NO. 1.	

RAW SEQUENCE LISTING PATENT APPLICATION US/09/382,242

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DATE: 10/19/1999

153 154	(i) SEOUENCE CHARACTERISTICS:	
155	(A) LENGTH: 49 NUCLEOTIDES	
156	(B) TYPE: NUCLEIC ACID	
157	(C) STRANDEDNESS: SINGLE	
158	(D) TOPOLOGY: LINEAR	
159	(5) 10101001. 11112.11	
160	(ii) MOLECULE TYPE: cDNA	
161	(II) NOILCOLL IIII. ODM.	
162	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:	
163	(iii) sagoanoa sasonatation. Sag as iio.	
164	CGGAGGTACC TTAGAACTGT GCTGAAGAAA TAAATTCGTC CATTGCTCT	49
165		
166		
167		
168	(2) INFORMATION FOR SEQ ID NO:8:	
169		
170	(i) SEQUENCE CHARACTERISTICS:	
171	(A) LENGTH: 53 NUCLEOTIDES	
172	(B) TYPE: NUCLEIC ACID	
173	(C) STRANDEDNESS: SINGLE	
174	(D) TOPOLOGY: LINEAR	
175		
176	(ii) MOLECULE TYPE: cDNA	
177		
178	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
179		
180	CCGAGAATTC ATTAAAGAGG AGAAATTAAC TATGAGATTG AGGAAATTTG	AAG 53
181		
182		
183	(-)	
184	(2) INFORMATION FOR SEQ ID NO:9:	
185	(1)	
186	(i) SEQUENCE CHARACTERISTICS:	
187	(A) LENGTH: 31 NUCLEOTIDES	
188	(B) TYPE: NUCLEIC ACID	
189	(C) STRANDEDNESS: SINGLE (D) TOPOLOGY: LINEAR	
190	(D) TOPOLOGI: DINEAR	
191 192	(ii) MOLECULE TYPE: cDNA	
192	(II) MODECODE TIPE: CDMA	•
193	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	
195	(AI) BEQUENCE DESCRIFTION. BEQ ID NO.3.	
196	CGGAGGTACC CTATTCAGAA AGTACCTCTA A	31
197	COMMOTING CINITONOM ACINCULTA A	31
198		
199		•
200	(2) INFORMATION FOR SEQ ID NO:10:	
201	(i) SEQUENCE CHARACTERISTICS:	
202	(A) LENGTH: 52 NUCLEOTIDES	
203	(B) TYPE: NUCLEIC ACID	±
204	(C) STRANDEDNESS: SINGLE	
205	(D) TOPOLOGY: LINEAR	

RAW SEQUENCE LISTING PATENT APPLICATION US/09/382,242

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	INFUI SEI:	33300Y.F
206 207	(ii) MOLECULE TYPE: cDNA	
208 209	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	
210 211	CCGAGAATTC ATTAAAGAGG AGAAATTAAC TATGTTTAAT ATCAATGTCT TT	52
212		
213 214		
215	(2) INFORMATION FOR SEQ ID NO:11:	
216	(i) SEQUENCE CHARACTERISTICS:	
217 218	(A) LENGTH: 31 NUCLEOTIDES (B) TYPE: NUCLEIC ACID	
219	,_,	
220	(D) TOPOLOGY: LINEAR	
221		
222 223	(ii) MOLECULE TYPE: cDNA	
224	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:	
225		•
226	CGGAAGATCT TTAAGGATTT TCCCTGGGTA G	31
227 228		
229		
230	(2) INFORMATION FOR SEQ ID NO:12:	
231 232	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 NUCLEOTIDES	
232	, ,	
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235	(D) TOPOLOGY: LINEAR	
236 237	(ii) MOLECULE TYPE: cDNA	
238	(II) MODECODE TIPE: CDNA	
239	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:	
240 241	CCGAGAATTC ATTAAAGAGG AGAAATTAAC TATGGAGGTT TACAAGGCCA AA	52
242	CCONDINITE ATTAMONOU NORMITANG TATOUNDUTT TACANGGER AM	72
243		
244	(a) TWTODWATTOW TOD GUO TO WO 12	
245 246	(2) INFORMATION FOR SEQ ID NO:13: (i) SEQUENCE CHARACTERISTICS:	
247	(A) LENGTH: 31 NUCLEOTIDES	
248	(B) TYPE: NUCLEIC ACID	
249	(C) STRANDEDNESS: SINGLE	
250 251	(D) TOPOLOGY: LINEAR	
252	(ii) MOLECULE TYPE: cDNA	
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254 255	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:	
256 256	CGGAGGTACC TTATTGAGCC GAAGAGTACG A 31	
257		
258		

SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/09/382,242

DATE: 10/19/1999

TIME: 13:13:38

INPUT SET: S33689.raw

Line

Error

Original Text

SEQUENCE MISSING ITEM REPORT PATENT APPLICATION US/09/382,242

DATE: 10/19/1999

TIME: 13:13:38

INPUT SET: S33689.raw

<< THERE ARE NO ITEMS MISSING >>

SEQUENCE CORRECTION REPORT PATENT APPLICATION US/09/382,242

DATE: 10/19/1999 TIME: 13:13:39

Line	Original Text	Corrected Text
5	(i) APPLICANTS: ROBERTSON, Daniel E.	(i) APPLICANT: ROBERTSON, Daniel E.
58	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
74	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
90	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
106	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
122	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
138	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
154	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
170	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
186	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
201	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
216	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
231	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
246	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
261	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
276	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
291	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
306	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
321	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
336	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
351	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
366	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
382	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
397	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
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560	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
640	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
718	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
807	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
889	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
968	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1068	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1162 1255	(i) SEQUENCE CHARACTERISTICS (i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS: (i) SEQUENCE CHARACTERISTICS:
1303	(i) SEQUENCE CHARACTERISTICS	1 J
1303	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS: (i) SEQUENCE CHARACTERISTICS:
1444	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1504	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1573	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1636	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1696	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1773	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1846	(i) SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1010	(1) SEASELLOR CHILITAGE LEIGHTICS	(1) SEQUENCE CHIEGOTECS.